ABB CI520V1 3BSE012869R1

Advant Fieldbus Communication Interface

ABB CI520V1 3BSE012869R1 is an Advant Fieldbus 100 interface for Advant Controller 400 installations, using external media modems and supporting redundant bus-cable paths.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	CI520V1 3BSE012869R1
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	2.2cm x 17cm x 10.3cm
Country of Origin	Sweden
Manufacturer	ABB
Product Category	DCS Systems
Spare Part Number	CI520V1 3BSE012869R1
Weight	0.12 kg

Buyer information / Overview

CI520V1 must be distinguished from the original CI520 variant without redundant-media support. It also differs from CI626, whose coaxial media modems are integrated rather than external.

External media adaptation
Select and retain the modem type appropriate to the installed AF100 medium.

Redundant-path continuity
Two cable paths require separately identified media connections.

Controller-side fit
Carrier and modem-cable choice depend on the Advant Controller installation.

CI520 is a submodule used in the Advant Controller 400 family and can provide bus-administrator functionality. The CI520V1 implementation supports redundant media, whereas the earlier CI520 variant does not. Preserve the V1 identity when the installation relies on two bus paths.

The interface is installed in an AC450/460 submodule carrier or an AC410 CPU arrangement. TK515 is the documented modem cable for AC450/460 and TK593 for AC410. The external TC625, TC512 or TC516 relationship must match the installed medium and physical connection scheme.

X8 and X9 identify the two bus-cable paths. For redundant coaxial installation, each path requires its own external TC625 modem and the bus must be terminated and grounded according to the media topology. X12 is a test strap and must remain unstrapped in service; it is not a field configuration link.

Controller platform reference: Advant Fieldbus 100. Retain the documented ABB configuration.

Technical Specifications

+5 V rail power	3.7 W
+24 V rail power	2 x 2.5 W
Bus connector pins	9 per D-sub female
Auxiliary output current, maximum	60 mA
Typical RS-485 input impedance	12 kohm
Handled cyclic data packets	Approximately 4000
Redundant bus cable paths	2
TK515 modem cable length	1.80 m

Technical source: ABB Advant Fieldbus 100 User Manual 3BSE000506-600. Interface specifications describe CI520/CI520V1 in the Advant Controller 400 architecture. Bus-length and termination conditions belong to the selected media/modem installation; keep the complete 3BSE order identity for supply.
Apter Power product summary. Original technical pages and a field guide are available in Downloads.

Applications / Compatibility

Use CI520V1 in the documented Advant Controller 400 carrier/CPU arrangement with the selected external AF100 modems.

V1 redundant-media support, modem type, controller cable and bus termination must agree as one installation; the interface alone does not define the complete network.

AC450/460 interface
Match the submodule carrier and TK515 modem-cable arrangement. Confirm the installed controller position before transferring media connections.

AC410 CPU connection
Use the documented TK593 relationship for AC410. Do not carry the AC450 cable assumption into the different receiving arrangement.

Redundant coaxial media

Keep the two paths and their TC625 modems identifiable. Restore the specified termination and common grounding location for the paired bus installation.

Twisted-pair media

Reconcile TC512/TC516 and the selected AF100 topology. Check the installed media conversion and terminations rather than treating the D-sub port as the field bus cable itself.

Product Precautions

Prepare ABB CI520V1 3BSE012869R1 using the following checks for its documented interface and system duty.

Retain the V1 identity

Do not replace a redundant-media requirement with the earlier non-redundant variant.

Keep X12 open

The manufacturer test strap must not be fitted during operation.

Label X8/X9 paths

Record the two cables and the modem assigned to each path.

Match controller cabling

Distinguish the AC450/460 TK515 and AC410 TK593 arrangements.

Restore media termination

Use the approved coaxial or twisted-pair termination and grounding scheme.

Prove both paths

Check each redundant media route independently before accepting normal network operation.

Lifecycle Status

The factory lifecycle phase of CI520V1 3BSE012869R1 is unconfirmed. V1 retains the redundant-media capability used in the documented Advant Controller 400 AF100 architecture.

Preserve the external-modem architecture, controller carrier and two media paths where configured. Original CI520 lacks V1 redundant-media support, while CI626 integrates its coaxial modems.

The interface submodule is separate from the carrier, TK515/TK593 cables, external modems and AF100 bus media.

Available Unit Details

Offered reference	ABB CI520V1 3BSE012869R1
Identity check	Request the V1/3BSE marking, X8/X9 D-sub connectors, carrier interface and the unfitted X12 test-strap location.
Physical review	The interface submodule excludes carrier, TK515/TK593 cables and modems unless listed. Before acceptance, establish which external modem belongs to each path and prove each configured bus route independently.
Included items	one AF100 interface submodule; carrier, modems and cables separately listed

Request available-unit photos and details: sales13@apterpower.com

Technical notes

Version significance	CI520V1 redundant-media support must not be assigned to the original CI520 variant.
Test strap	X12 is reserved for testing and must remain unstrapped.
Path-specific acceptance	Redundant coaxial media uses a separate TC625 on each bus cable. A healthy path must not hide a second cable, modem or termination defect.

Alternative Names

ABB CI520V1 3BSE012869R1

Frequently Asked Questions (FAQ)

1. Can the original CI520 replace CI520V1 3BSE012869R1 where two bus cables are required?

The original variant lacks the V1 redundant-media support. Retain the V1 requirement and verify both media paths rather than accepting the shared CI520 family name.

2. Should X12 be fitted to configure CI520V1 3BSE012869R1 for normal bus service?

No. The manufacturer identifies X12 as a test strap that must not be fitted in operation. Preserve the documented service condition rather than treating it as a media-selection link.

3. Why does CI520V1 3BSE012869R1 need a modem check even though it has D-sub bus connections?

CI520 uses external media modems. The connector does not by itself establish a coaxial or twisted-pair installation; compare the modem, cable and termination arrangement.

4. Is the modem cable the same for CI520V1 3BSE012869R1 in AC410 and AC450/460?

No. The documented arrangements use TK593 for AC410 and TK515 for AC450/460. Match the receiving controller and carrier before transferring the existing cable assumption.

5. How many external coaxial modems are needed for a redundant-media installation using CI520V1 3BSE012869R1?

The documented architecture uses one TC625 per bus cable. Keep their path identities and connections separate, then prove each route independently.

6. Can an integrated-modem CI626 be treated as the same interface arrangement as CI520V1 3BSE012869R1?

No. CI626 integrates coaxial media modems, while CI520 uses external units. A change requires review of the controller connection, network hardware and media topology.

7. Where should troubleshooting start if only one bus path works after installing CI520V1 3BSE012869R1?

Compare X8/X9 path allocation, that path's external modem, cable and termination. For redundant coaxial media each cable has its own TC625; inspect the failed route rather than changing a working common application mapping first.

8. Why does moving CI520V1 3BSE012869R1 between controller types require more than reusing a D-sub cable?

The documented AC410 connection uses TK593, while AC450/460 uses TK515 and its carrier arrangement. Confirm the controller/carrier interface and the external modem path together; matching connector shape alone does not select the correct cable.

Downloads

The technical reference covers Advant Fieldbus 100. The independent field guide develops controller carrier and dual-media af100 review.

CI520V1 3BSE012869R1 Original Technical Reference Excerpt	Selected original manufacturer pages for the applicable interfaces and technical data. PDF · 6 pages · 3142.8 KB.
CI520V1 3BSE012869R1 Installation & Commissioning Guide	Controller Carrier and Dual-Media AF100 Review. Decide carrier/cable and media/modem relationships separately, then prove the redundant network paths without relying on a single healthy connection. PDF · 2 pages · 91.8 KB.

Selected original technical pages and a separate installation guide support this product.

What happens after you enquire

Review your reference	Send the full marking, quantity and label photos. We review the item and any version details that need clarification.
Confirm the offer	Check the quoted reference, condition, included items and expected dispatch date before approving your order.
Arrange dispatch	Confirm delivery details and receive the tracking number when it becomes available.

Ordering checks

Include CI520V1 3BSE012869R1 and every revision or approval marking visible on the item. Keep the exact reference on your enquiry and quotation.

Request available label and interface photos. Have your maintenance team compare the offered CI520V1 3BSE012869R1 reference with the installed equipment and applicable ABB documentation.

Service and support

Dispatch Planning	Confirm stock and lead time with our team.
Dedicated Manager	Personalized one-to-one VIP service
ISO 9001:2015 Certified	Trusted quality management
Warranty Policy	Review the applicable warranty coverage and claim process.
Return Notice	Check the return process and obtain approval before sending an item back.
Shipping Method	Review shipping arrangements, transit estimates and delivery responsibilities.
Parts Availability	Browse stock listings and confirm current availability with our team.
How to order	See how to submit an enquiry, review a quotation and confirm an order.

Discuss your requirement

Send the full marking, label photos, quantity and required date. Our team will review the available sourcing options with you.

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Related product references

Separate supply references; listing does not establish interchangeability.

ABB XO08R1 XOO8R1-B04 1SBP260101R1001	Digital Relay Output Extension Module; separate supply reference
ABB YPH108B/SPC	Extended Speed Measuring Board; separate supply reference

Discuss CI520V1 3BSE012869R1 and the installed application with Apter Power.
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